

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
SACRAMENTO, CA 95814-5512
www.energy.ca.gov



NOTICE OF RECEIPT
PETITION TO AMEND
THE ENERGY COMMISSION DECISION for the
EL SEGUNDO ENERGY CENTER, 00-AFC-14C

On April 23, 2013, El Segundo Energy Center, LLC filed a petition with the California Energy Commission requesting to modify the El Segundo Energy Center (ESEC) project.

The ESEC is a 1052 megawatt power plant with 4 natural gas generation units. Units 1 and 2 were demolished and retired as part of 00-AFC-14 and are being rebuilt as units 5, 6, 7 and 8. Units 3 and 4 are proposed for demolition as part of this amendment to be rebuilt as units 9, 10, 11 and 12. The project was certified by the Energy Commission in February 2005. The site is located at the southernmost city limit of the City of El Segundo on the coast of the Pacific Ocean between Dockweiler State Beach and the City of Manhattan Beach in Los Angeles County.

DESCRIPTION OF PROPOSED MODIFICATION

El Segundo Energy Center LLC (ESEC LLC), the Project Owner, a wholly owned subsidiary of NRG Energy, Inc (NRG), proposes to modify the El Segundo Energy Center ESEC, 00-AFC-14C, Final Decision to make substantial changes to the ESEC. Primary changes include the replacement of two once-through-cooled boiler units, Units 3 and 4, with modern dry-cooled, natural-gas-fired combustion gas turbine units. This change will eliminate the use of ocean water for once-through cooling at the facility. The proposed changes will also upgrade and improve the ESEC's existing and approved site infrastructure, and provide fast start and dispatch flexibility capabilities to support southern California grid load balancing and renewable energy integration, and implement improvements to coastal access.

Specific changes proposed through this Petition to Amend (PTA) include:

- ☐ Shutdown and demolition of Units 3 and 4
- ☐ Removal and remediation of existing ESEC retention basins
- ☐ Change in location for the permitted (but not yet constructed) administration building to a lower elevation
- ☐ Construction of a new, combined administration, maintenance, and operations support building
- ☐ Modifications to existing site access
- ☐ Improvements to beach access

The following new major equipment will be installed:

- ☐ One NRG fast start combined-cycle unit (CC Fast), rated at 325 MW net, incorporating a General Electric natural gas combustion turbine generator designed to achieve 75 percent of base load output in 10 minutes.
- ☐ Two-pressure duct-fired heat recovery steam generator (HRSG) designed for rapid startup with conventional SCR/carbon monoxide (CO) catalysts.
- ☐ One Heller dry cooling tower system
- ☐ Two Rolls Royce Trent 60, rated at 55 MW/unit net, consisting of advanced aeroderivative simple-cycle gas turbines.
- ☐ One single-case non-reheat axial exhaust admission condensing steam turbine generator (STG) designed for non-traditional elevated condensing pressure to minimize cooling system size
- ☐ One Cleaver Brooks auxiliary boiler consisting of a direct contact spray condenser and a mechanically induced draft dry-cooling tower.

ENERGY COMMISSION AMENDMENT REVIEW PROCEDURES

The purpose of the Energy Commission's review process is to assess the impacts of this proposal on environmental quality, public health and safety. The review process includes an evaluation of the consistency of the proposed changes with the Energy Commission's Decision and, if the project, as modified, will remain in compliance with applicable laws, ordinances, regulations, and standards (Title 20, Calif. Code of Regulations, section 1769). Energy Commission staff is currently analyzing the request and will publish an analysis in the near future. A public hearing for the purpose of approving, denying or modifying the amendment proposal will be held at a regularly scheduled Energy Commission business meeting.

This Notice of Receipt is being mailed to interested parties and property owners adjacent to the project site who may want to participate in the amendment process. The petition is available on the Energy Commission's website at <http://www.energy.ca.gov/sitingcases/elsegundo/compliance/html>. The staff analysis, when published, will also be posted on the website. If you would like to receive a hard copy of the petition and/or staff's analysis, please complete the enclosed Information Request Form and return it to the address shown.

If you have any comments or questions, please contact Craig Hoffman, Compliance Project Manager, at (916) 654-4781, or by fax to (916) 654-3882, or via e-mail at craig.hoffman@energy.ca.gov.

Any person may file written comments on the Petition to Amend. All comments must be in writing and must be sent to the Energy Commission Dockets Unit. Please include the docket number (00-AFC-14C) in the subject line or first paragraph of your comments. Those submitting comments electronically should provide them in either Microsoft Word

format or as a Portable Document Format (PDF) to docket@energy.ca.gov. Please include your name or organization's name in the file name. Those preparing non-electronic written comments should mail or hand deliver them to:

California Energy Commission
Dockets Unit, MS-4
Docket No. 00-AFC-14C
1516 Ninth Street
Sacramento, CA 95814-5512

All written comments and all materials filed with the Dockets Unit will become part of the public record of the proceeding. Additionally, comments maybe posted to the website.

For further information on how to participate in this proceeding, please contact the Energy Commission Public Adviser's Office, at (916) 654-4489, or toll free in California at (800) 822-6228, or by e-mail at publicadviser@energy.ca.gov. News media inquiries should be directed to the Energy Commission Media Office at (916) 654-4989, or by e-mail at mediaoffice@energy.ca.gov.

Date: May 2, 2013

original signed by C. Marxen

CHRISTOPHER J. MARXEN, Manager

Compliance Office

Siting, Transmission & Environmental Protection
Division

Enclosure: Information Request Form

Mail List #: 7046

List Serve: El Segundo

INFORMATION REQUEST FORM

COMPLETE & MAIL TO: CALIFORNIA ENERGY COMMISSION
COMPLIANCE UNIT
ATTN: CRAIG HOFFMAN
1516 NINTH STREET, MS-2000
SACRAMENTO, CA 95814

OR FAX TO: (916) 654-3882

NAME AND/OR TITLE (AS IT IS TO APPEAR ON MAIL LABEL)

ORGANIZATION (IF APPLICABLE)

STREET ADDRESS OR P.O. BOX

CITY

STATE

ZIP CODE

PROPOSED AMENDMENT TO THE COMMISSION DECISION TO: Change to Fast-Start Turbines and Dry Cooling, Eliminating the use of Once-Through Cooling for Units 3 and 4 at the El Segundo Energy Center (00-AFC-14C)

PLEASE CHECK THE DOCUMENTS YOU WOULD LIKE TO RECEIVE:

- ☐ PETITION TO AMEND on CD
☐ STAFF ANALYSIS ☐ on CD (if available)

PROJECT: EL SEGUNDO ENERGY CENTER

DOCKET NO: 00-AFC-14C

MAIL LIST NO: 7046

☐ PLEASE REMOVE MY NAME FROM THE EL SEGUNDO ENERGY CENTER PROJECT MAILING LIST